Pocket Notebook
PN 20-08-04 (1920)

This notebook dates from August - October 1920. The pocket notebook contains notes by Thomas A. Edison relating to experiments with chemicals, electro cleaning solutions, phonograph records, storage batteries, reproducers, chalk telephones, wax masters, diamonds, rubber and Blue Amberol cylinder records.

PN-20-08-04

☆2996

EDIS 223910

Consonance Vibration numbers which can sound together without harshness due to beats:

Octave	1-2	5th	2-3	4th	3-4
Major 3rd	4-5	Minor 3rd	5-6		
Major 6th	3-5				
Minor 6th	5-8				

We should have Piano duets on disc

Cu layer of flake is 8325 Milamp seconds per sq in Ni 37300 -

When ready patent Ford Starter type of battery in England France Germany. Sweden Canada & Italy

~~Retns~~ About 3000 Diamond points put in monthly in returned Reproducers - of which 75% are worn & al broken Cost $85000 year Diamond at $2.50

Try Antimony Sulfide Fe powdered in NaOH red heat or less. to get an Oxide for H reduction

~~Why cant .005 stock be used for [illegible] Rockets instead of .0035~~

Make some trichlorophenol Shellac see if makes record or useful otherwise.

Aug 4/20

~~Ask Lihr if [illegible] would make a good Motor Machine for Storage Battery~~ — No

Expmt to get a Electro cleaning Sol that when alkaline gives no deposit — Black deposit probably iron in soda & Na Sulphate -

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Sample Mn wad from Caleb G Collins Kellys Ford Virginia good Cobalt Easy conc by tumbling Barrell

Quartz with wad in seams & stains

Supposed to assay	Cobalt	4.5%
	Ni	4.0
	Ag	8 oz ton
assays really	Cobalt	0.95
	Ni	0.16
	Ag	7/10th oz -
	Cu	0.41

Silica 68
Fe_2O_3 2.9
Al_2O_3 9.43
Mn_2O_3 9.4
MgO } traces
CaO
Undetermined, water & Alkalis

We have many moulds rejected
for Bent Generally females (wkg)
Reason is they are too thin
Wkg females should be thickest
of all Moulds & should go
72 hours even on 15 @ 16
amps as they are used so
much.

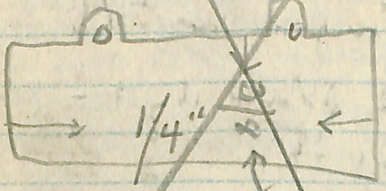
Walter Miller - Make
3 planes tracked.
Records dif way -
quick to Gray Silver
plating & 8/4 -
also others due
to go there full
process of test
surface & number
of prints

We had a man named
Tommy Tumsted, who wks. for Luhr
he was in chg of finishing
Dept. in Wisc 4 yrs ago but
didnt like the Girls = Is
good Machinist, Moore says
good man for Lathe dept.

Get Rikers ~~Day~~ roll.

Look at fine dent Wizard

Filter Cloth



Shrink
wet &
Dry

general average by spectroscope
of Mallorys 1st Samples 8 in number ground together
to 100 mesh - % 4.08 Li_2O
will check by reg assay
Samples 1 to 8 = Aug 7/20

press nearly dehydrated $CuSO_4$ then
burn see if makes a porous CuO
plate

Model flake separator Y&G has given
one lb per hour.

Try phosphorus dissolved in olive oil
etc to coat silver for stripping -
ditto Bromine water, Iodine +
Se too slow

LiOH is a weak alkali, its very likely a lot
of things will form a battery all
insoluble in LiOH. which would be
soluble in KOH + NaOH, thus opening
up a new field.

see if Crystalized $CuOH_2$ is sol in LiOH

Cu Oxyfluoride make

Ferrites for batty use very promising in
thin layers - Ferrite of Barium very
stable, can be boiled without decomp

Using 4 stage Audion + delicate
Microfone see how far jars can
be eliminated by Rubber sponges

Mn perox forms compounds with
Ca - pbly also Ba + Sr - Delalande
depolzr -

Vanadate Ca Sr Ba insol alkali
High Ox Vanadate might act as
depolzr

plate grafitized wax with Sb, or Bi

Make some of the White very bulky
porous $Ni(OH)_2$ for Hanly & for a
test cell at S Bat It may be by
increasing A 4 to A 5 we could use
it + that instead of cell lasting
4 @ 5 yrs it pores would not
fill up & it would last for many
more years -

Try Balmain paint under reproducer
to see point to stop playing in a
rather darkened rooms

see Hayes about making his
Matchings after moulds are
made

Osmo pressure increases with
Temperature - Try Chalk phone dif
temps

Hayes May 7 ordered sel a song
duet from Wedding bells -
May 10 asking about Hymns

EMg pen self adjusting
2 sq holes 1/16 single

~~Copper washer sides in chalk fine instead platina seems better Try many metals. The continuous current also very good, doubles vol - seems to want a depolyzer~~

~~Catalogue May 28 1920 has 1139 Records 2278 Selections includes 50 foreign language recds~~

Wax Masters plated 9 hours then go to genl bath for 4 days. then stripped from Wax in Lathe room. then turned 2 Celluloid prints made, then do put in Vault

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New record Masters out of Vault go to treatment Dept. thence to preliminary room for 3 hour deposit of Cu then to genl bath for 3 days.
Dempsey does labels ! ? ?

Diamonds - 1 cleaning & selecting stones 1 hour per 1000 -
flash stones with Ni 5 hours 1000
Load holder & wax wires 2½ min Each
plating 100 in 60 hours
grinding Ni to size 4 minutes Each
Uncovering stones, 3 min each
Rough grinding 8½ min each
flattening ½ min.
Reducing size setting 1 min each
Rounding & polishing 20 min

Eaton says a concern in Newark has 2 german inside laps machines imported before the war & they ground very rapid -
Says present Lap (inside) spatters some on large size but not on small one - wants to make another machine - find out who has these Laps in Newark.

White sediment our Rubber baths

PbO	38.%
$CuSO_4$	12%
SiO_2	25
Al_2O_3	7
Loss ignition	14%

$CuSO_4$ - 25 cc Acetic to Liter 2" strip
300 Ma rate - 2 hours
Spec g 1.180 1.170 1.160 1.140 1.120
1050 & 1080. all good plating

Lab can supply treatment dept with distilled water.

Old men in plating = John McCartney
Pearsall now at Silver Lake,
Nick Pomiglina now in Newark
made all the grafite last 2 yrs

Werner top floor foreman 60 week

Have Vermyhe report on
Boonton. WP

Present Copper bath Aug 8/20
2.67 grms Ni per Liter =
7.04 $NiSO_4$ =
11.97 $NiSO_4\,6H_2O$ =
62.4 Copper
Nickel is. 4% of Cu & Ni Content

See Maxwell Mambert & Charles
New frt rate.

Things in Progress

1 = Improve Leland—plates & Voltage
2 Dry Lelands—ditto portable wet
3 Ford Starter.
4 New Disc. Dolly
5 Audion battery
6 Deaf apparatus
7 sheet Nickel articles
8 Ni from Sudbury ore process
9 Long funnel recording
10 Moulded Cabinet furniture
11 Electroflake,
12 Increase capacity A4
13 Chalk phone amplifier
14 Lithia ore process
15 25 points per Karat
16 Automatic blank powder loader
17 KOH free of Chlorine
18 Measuring Volume of sound
19 Charts for singers scale
20 Varnish Cabinets Cheaply
21 Substitute for Celluloid Cylds records
22 Varnishing machines for blanks
23 Removing Mangan from Iron
24 Cheaper Ediphone record
25 Best Chamber & Opening for Recorder
26 Autofurnace reduce Fe by H
27 Regeneration old S Battery process
28 Re Organize Disc dept
29 " Diamond
30 " S Battery

Aug 9 1920

8 days rejects	%		Rut in baths
~~Cullen~~	~~20~~	~~24~~	~~385~~
~~Kennedy~~	~~6.2~~		~~322~~
~~Brennan~~	~~9.4~~		~~318~~
~~Watson~~	~~4.3~~	~~22A~~	~~116~~
~~Baker~~	~~13.3~~		~~127~~
~~Smith.~~	~~11.5~~		~~182~~
~~Langy~~	~~6.3~~	~~22B~~	~~252~~
~~Hert~~	~~12.6~~		~~174~~
~~Dunn~~	~~7.8~~		~~218~~

~~Charles Emerson left on account of Stant & Clarke Was Mac M assistant in plating worked in plating 4 yrs — Wants job — Lives W Orange~~

500 cc glycerine & 150 grams # 60 double wash flour Emery

With Ice Cream mixer we have use 400 cc glycerine & 120 grs SFXXX Emery to a dose

No amount of soaking in the strongest Selenious acid in Water of Nickel appears to hurt the record surface a piece Ni 007 soaked for weeks & even bent 1/8 radius shows no chipping off — Copper only stand few minutes all scales Silver requires 10 to 20 min to show any stripping 2 hours is not sure —

~~#24 Room Copper bath.~~
~~Spec G 1.183 - 1322 1.183~~ A 22 1.181
$CuSO_4 + 5H_2O$ 24 —

#24 Copper baths 8/11/20
Spec G 1.183
$CuSO_4 5H_2O$ 21.76
free H_2SO_4 2.27

22A
Spec G 1.181
$CuSO_4 5H_2O$ - 20.99
free H_2SO_4 2.33

22B
Spec G - 1.182
$CuSO_4 5aq$ - 22.19
free H_2SO_4 2.74

Casey Anode Dept says
Can put in new anode or
partition & Stir Even with a
Rod & in 10 Minutes Copper
Mud all settled down &
Surface OK. Aug 11/20

~~First taught Polisher~~
~~Ernest Ryan OK man~~

~~Belding O.W. amp~~
~~Meters on Machine~~
~~Number of discs in~~
~~& Wall amp meter~~
~~dont check!~~

~~Try disc coated Rubber~~
~~dope which dope has~~
~~Resins in or other things~~
~~to prevent water going~~
~~thru rubber, Try~~
~~Sandrac Manilla Copal~~
~~Rosin, Koppers~~

Try cleaning Ni disc with
glacial & more dilute
acetic -

Get good test for acetic
in Ni Sol - also all acids

Our $CuSO_4$ solution must be full of iron — test for it & if large use Cu_2S or something to remove it.
Abstract says use Cu_2S — & filter —

~~Hawkins (Miss) get her out — playing her to influence Charlie —~~

$\frac{1}{10}$th of 1% glacial in Water turns Litmus dark red not bright Red, This is not enough for baths Ni

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~~[illegible]~~ ~~Hawes daily Log kept of filter press pressure & even flow all along — Get better Rubber ferrules & Cut in the 2nd filter~~

~~Get Brass filter bag holder in work~~

~~Start Fred Ott flowing New Ni formulas & break in Main bath / 1st get supply of holder drying box~~

~~Get dozen brushes of right Kind —~~

~~Moore fix up lathe chuck so not hurt Rubber Varnish~~

~~Moore get new 3 polisher~~
~~table & bleach man~~
~~Move 1st man over to~~
~~Jar 22 or Jaysons and~~
~~Paullin –~~

~~Belding } Warner~~
~~wants } 12 amp~~
~~8 or 9 volts.~~

~~Ventilator in room~~
~~where we rubber~~
~~coat & have~~
~~drying boxes~~

~~Casa Cove~~
~~Anode Dept.~~

8 hour shift Varnish
with 80 cc Rubber
400 discs – 25 liters

Benzol to be Evap
approx 1 gal
hour, find out how
many ft air necessary
to render this amount
1/5 of what is Explosive

Disc Electrician,
Robert Rausch –
practical.

Varnish Benzol –
Room 1000 ft Content
Renew air 6 times hour
more safe

~~Benny says Major Anderson who works for Jones would be a good man as Supt of Plating plant.~~

~~Want a non viscous at ord temp strong cementing substance to take place of Beeswax & Rosin for putting Matrix on face plate with as low Melting point as Beeswax & Rosin now used~~

~~See our plating plant distilling apparatus & arrange for French marks on quantity of liquid also a receptacle to hold Distilled water & conveniently feed it gradually" Keep Volume of Liquid the same at all times -~~

~~Try if [illegible] be turned can be softened by Kopper Resin dry - so its brittle & sticks along to face plate 175 MP - want softening point -~~

to get Fahr' from Centigrade
multiply Centg by 1.8 +
add 32°

Either try Iodine Vapor
on the Ag plated slips
+ wax — when yellow
tint its OK 90 atoms thick

~~Tell Moore that~~
~~in stripping room~~
~~somewhere black~~
~~thick oil is thrown~~
~~on matrices —~~

~~Flat tops may be due to~~
~~full pressure on a cold~~
~~blank, No 004 being pressed~~
~~in — find an OK discard~~
~~OK as to no flattening &~~
~~press cold in presses where~~
~~they permit 2 —~~

~~Try if echoes come~~
~~if phone is not~~
~~level —~~

~~Try the powerful~~
~~objective from Micro~~
~~in Chemical room~~
~~on flat top wkg~~
~~mould — discards~~
~~Record from it~~

~~If Veneer Ni is too thin~~
~~& is loose on~~
~~backing it may~~
~~flatten~~

~~see Kascofa~~
~~about danger of putting~~
~~in Maple & removing~~
~~clothes in running~~
~~Amp at Constant~~
~~Voltage too high~~
~~Arrange it so as to~~
~~make change at~~
~~one time by holding~~
~~Maples till enough~~
~~for whole room~~

~~Get supply 212 Therm~~
~~big Easily read~~
~~scale for plating~~
~~plant - protected~~
~~from attack~~
~~by non acid holder~~
~~& clamp at end to~~
~~fasten cover &~~
~~kept in position(s)~~
~~Read at all times~~

~~Test for acid in Ni~~
~~Electrolyte~~
~~Blow air thru on to~~
~~Litmus or other~~
~~indicator absorb~~
~~water globules~~
~~by cotton or strong~~
~~H_2SO_4~~

~~See if I got can 10 lbs of the~~
~~Emery finer than I now use~~
~~& if it works just as good~~
~~on Ni also try Copper~~
~~If this will do it will stop~~
~~Scratches — if none send for some~~
~~2 Cans~~

~~Find out if Clancy polishes~~
~~Masters, 1st females 2nd~~
~~Masters & 60 kg females~~
~~& what with — too many~~
~~longitudinal Scratches~~

~~Clifford Bedford~~
~~16 Gist Place~~
~~Or 6847 Orange N.J.~~
~~Chemist, lives here, father a hatter~~
~~Costs 3 solutions — OK 3 [illegible]~~

~~I think there is~~
~~incrustation inside~~
~~the plattens on press~~

~~See about new Smith~~
~~presses — Especially~~
~~plattens — plattens~~
~~parallel within .002~~
~~No rough turn~~
~~marks — suggest~~
~~grinding surface.~~

~~Send for 100 lbs~~
~~SF 12 X get price 1st~~
~~with 6 machines 2 of which~~
~~have 3 shifts requires~~
~~2.6 lbs daily — above~~
~~is for a month with~~
~~surplus —~~

~~Fan in Master room~~
~~to Suck in dust~~
~~& [illegible]~~

~~Elvira Leveroni~~
~~Contralto fine singer~~

~~J Henderson~~
~~Moulds Dept.~~

~~Last 6 weeks average~~
~~discs put in vaults~~
~~daily -~~

~~10 Masters~~
~~22 Female Masters~~
~~68 Male 2nd M~~
~~276 - Working females~~
~~376~~
~~Dont look right~~

~~See if we cant stick~~
~~Label on Master with very~~
~~low mp solder when button~~
~~is put on~~

~~We have a Charles fire chief~~
~~yet I see in Eve window~~
~~open + everybody gone~~

~~Anneal at Glover~~
~~Look over stock~~
~~for rolls shut down~~
~~moulds idle~~

~~Switches hot at Dynamo~~
~~End of 22A.~~
~~Leads to Switches from~~
~~Bus bar, one table with~~
~~one row only, Buses in~~
~~Warm —~~
~~3 Dynamos going~~

~~Tomany Mary 1st Francis~~
~~2nd W Elc on Storeroom 3rd~~
~~floor, talking about enlarging~~
~~it.~~

~~Stripping Lathe (new) can't~~
~~be used.~~

~~Fagan — find out from~~
~~Dynamo to nearest~~
~~nickel bath drop from~~
~~furthermost nic bath~~
~~drop on C. probably~~
~~increased Cranes & didn't~~
~~increase bus~~

gross recd from Jobbers	69.53
after 15% returns	59.10
" Taxes	56.09
" Selling Ex	42.18
" Licensed Lab Etc	41.52
" Talent, Masters royalty Pkg	33.11

Cost 54.93 —
Loss 21.82 per record
See 3 leafs ahead

~~Send Madeleine a check~~
~~54.78 to pay for tires~~
~~to Keller — Meadoft will~~
~~1st check be ok~~

~~See if Paullin Fred Milner~~

~~Monahan give list of~~
~~Foremen, Engr Elec OK~~
~~& not OK also Foremen~~

~~Fix up supply tank for~~
~~Mike Coda for [illegible]~~

Get supply Rouge
5 lbs best Condit &
Van Winkle

NOTE

Using wax that
is attacked by Reg
24 gram Sulfr acid
Try plating with
12 6 3 + 1½
gram dep per Liter
also 2 4 6 8
12 hour soak of
bare wax –
~~Same Schedule of~~
density as we use
in Reg Masters –

Have all polishers ~~[illegible]~~
be warned about finger
marks, Can't used gloves
on account of washing
but all others must use
gloves –

Get pay roll for disc
from Meadcroft or Allengh
& arrange putting in
Dept –

or Constable
Moore to design a
a buffing machine
with brush fine hair
or cloth – to keep
wkg moulds bright
to stop sticking of
Varnish –

~~Have we the Wetting Machine working~~

~~Aluminum Palmitate is an Elastic Amorphous Mass insol aq. The film of Aluminum Soap left on Evaptn from a Solvent is impervious to Water It is this which gives us good wax Mailers hence we should find out how to get more Palmitic in our Stearic~~

~~Palmitic Acid can be made from Myrtle Wax which Contains Palmitin with only a little Laurin~~

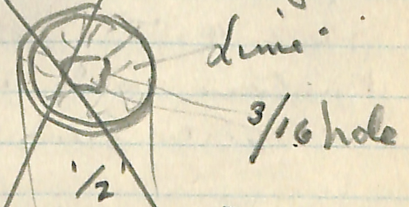
~~Palmitic is made in large quantity by reacting on oleic by KOH at high temp~~

~~also made commercially from Palm Oil -~~

~~Na stearate may be separated from sodium palmitate by fractional crystallization from hot alcohol~~

~~See if we have Extra Supply of Stoneware Y Cocks Etc.~~

~~Follow up incrustation in platens + pipes in press room its in an awful state~~



~~get samples + send to Water Softening people Dearborn etc~~

~~find of Galvzd tank, ok
for distilled water
of OK with Buchanan
& Salonge~~

~~Why Cant Switches for Hoffman
presses Electric be put
together & the 2 switches
on seperate floor~~

Cost records july 1920

Labor Material Supplies etc	54.93
Add returns 15%	65 36
Add Tax	68 37
Add Cost selling	82.28
Add Patent Modern Royalty Pkg	90.28.6
Received	69 53

21. 82 Cents Increment

~~Ask if men upstairs are
using SF 12 X & if not
start them~~

~~Ditto, pass H2S thru~~
~~Gilsonite in Benzol &~~
~~SO_2 thru Gilsonite in Benzol~~
~~Equal parts -~~
~~Test of Sulphur absorption~~
~~Try other Asphalts -~~

~~Send down to Shaky~~
~~for some Stearic acid~~
~~to Expmt with & get~~
~~Formula - Want to~~
~~get Palmitic out~~
~~Make Palmitate Alumin~~
~~alone etc~~

~~Use old cells (wrecks)~~
~~filled with Electrolyte~~
~~for packing Expmts~~
~~O'Dair.~~

~~O'Dair take no orders~~
~~from anybody but myself~~
~~& won't do anything without that~~

~~Get an idler various kinds~~
~~& equip several baths -~~

~~Get a better belt hook~~
~~& test at high speed -~~

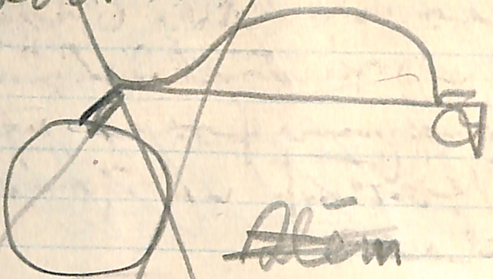
~~Find man investigated~~
~~lye orange married to~~
~~stop luminous -~~

~~Get layout Stripping~~
~~Room money~~

~~If samples of Palmitate Aluminum is OK~~
~~order 20 lbs see if no~~
~~dirt in it,~~

~~Try different proportions~~
~~of Asphalt in Pechays~~
~~Rubber dope - it~~
~~might make a good~~
~~backing - test.~~

~~Woora Dischalder~~



~~Alum~~

~~Note angle~~

~~Must not use~~
~~Vaseline —~~

~~Fred Ott Make better felt~~
~~hooks.~~

~~Meadowcroft - prod man~~
~~getting up forms of~~
~~books —~~

Neutral Copper Sol
plate graphited strips

~~Rig up still bath~~
~~use neutral Sol Cu &~~
~~rigging for wax~~
~~Washing in garage~~
~~lab —~~

~~Listen to Lozey recording~~

~~Be sure try Chloroform~~
~~Rubber —~~

~~With Cu Ammonium sulfate~~
~~probably free ammonia~~
~~will dissolve Oxide~~
~~like acid do in~~
~~CuSO4 — both being~~
~~Equivalent; Reg bath~~
~~2½% acid — New bath~~
~~1 or 2% excess ammonia~~

Report Caldwell & Niel Sept 10/20
Each listening to 1170 record faces taken off press at one time, but O'Neil in Music room which is quiet Caldwell next Dallys room not so quiet - taken off press Aug 31

Smooth also

Caldwell	Very Bad	19	Neil	50
"	Bad	471	"	690
"	Fair	614 s		399 s
"	Good	64		31

Surface

Caldwell	Very Bad	139	Neill	24 s
"	Bad	268	"	425
"	Fair	629	"	650
	Good	132	"	71

Repeats

Caldwell	Very Loud	156	Neill	49
"	Loud	173	"	354
"	Light	285		319
"	None	554		448

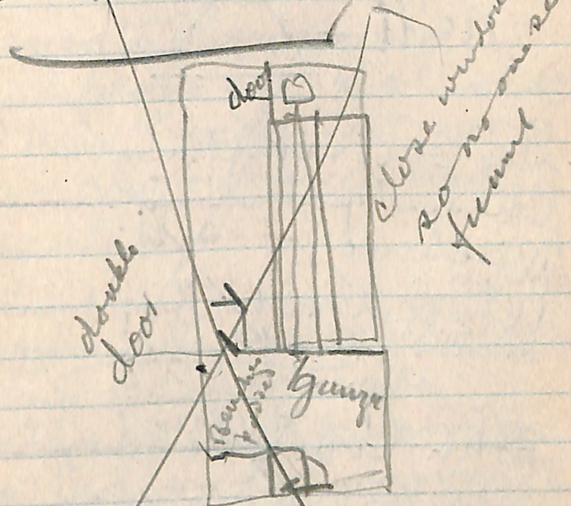
Bad Prints

Caldwell		31	Neill	62
"	Dents & buckles	129	"	160

Bad Repairs

Caldwell 22

All our Crates are based on Vehicles & are flimsy by Mfrs cramping space Wherever we are not cramped for space we should adapt more Husky battery holding Crates -



Playing fix studio this way

Go down to Shake + look at
Wax Dept + also Salvage plant
find out what was trouble
with Bob Lee outside of
Drink –

Jones get me 3 more
men like Caldwell +
Neill –

See Gall + start him on
Cheaper polishing diamond
Machine
Where does he keep himself
He could go in Lab drafting room –

John Constable – fix
new Carrying box

McMullen Rig up $CuNH_4SO_4$
bath + plate Wax masters +
Carry them to print on
Daily blank

Develope belt hook + idler

See if polishers upstairs
used SF 12 X if not tell
them to –

Get a man to run
Garage Lab – ~~[illegible]~~

Go over to Ramseys +
find place for polisher
in new treatment room
or in old room when
vacated –

Benny to substitute
Wm Kasdorfs all
baths ~~pt~~ not plating
the Center when found
having new standardized
baths

Buchanan how about that
Bevelling Machine

~~Go over to Battery pick out~~
~~Regenerating Room 150 X 60~~

~~also place for Varnishing~~
~~Machine -~~

~~Get Report from Hart~~
~~on last battery & send to~~
~~McChesney 3/16 Grant.~~

~~See if Benny Cut out all~~
~~back taps for alarm~~
~~rotator,~~
~~Ask how fast does he make~~
~~Maple Seperators.~~

~~See how much selenium we~~
~~have & how much used~~
~~then buy 6 months~~
~~supply 3 month minimum~~

~~See Moore about filter press~~
~~when all plates be changed~~

~~Where is the Palmitate AS~~
~~Samples~~

~~get pay roll Salvage~~
~~& Sales~~

Arrange for Pilot both ammeter
So can Regulate Volts
to get required amperes

~~Archer see if we get~~
~~4 amp - Resacon~~
~~will help, & what~~
~~wires have been fixed~~

Based on July/20 costs
with Labor + Material Costs same

Then	Cost	Saving
550 000	54 13	is on account
600 "	53 46	overhead
650 "	52.94	
700 "	52 49	
750 "	52 12	
800 "	51 73	
850 "	51 49	
900 "	51 22	
950 "	51 11	
1000 "	50.77	

Recd from Maubert Sept 13/20

~~Arrange with Anderson + Kasakova
about 1 Man reading V +
amp nights + Regulating
He attends all 24 22A + 22B
Ni —~~

~~See about cutting out the
old amperemeter wires —
if no man here wire man
from Newark Concern~~

~~See Wolf ask Jacobus + Taylor
about him —~~

~~Get analysis of Ni in Carb Ni
w 2 Vaults at 6 Lake form —~~

~~Consider if it would not
be better to have on night
+ day, Man to read V + amp
every 10th bath + Reg Volts
+ attend Dynamos,~~
~~[illegible]~~

~~Get Coils in Cu + teach
men how to regulate
Temp.~~

~~Arrange so man put in
puts time on slip to
know when to switch
over to full current.
Otherwise be too thin —~~

~~Consider a night Inspector like Archer,~~

~~See what our old Chief Draftsman does who left us during the War — He could be used on working out Silver Lake furnaces for annealing at Orange plant. & also alterations on flake Crane — & sketches for experimental contacts on old Crane~~

~~Ask Dr Alder if he determined acidity of sol from Ni Sols Edgerton dept if not Edgerton get several samples different Cranes & have it determined — if none Edgerton try Acetic. 2½ grms per liter in one crock or 2 & note plating~~

July Pay roll got from office
There was in Plating Plant

Bath Cleaners	8	
Platers	9	
Platers helpers	17	
Treatment	9	
Carrier Treat room	3	
Casting anodes	4	
Carriers	3	
Pot pumps	1	
Lathe hands	11	
clean back of Molds	3	
Genl Foreman	1	
Preliminary bath }	1	
overseer ditto }	1	
Bath tender	2	
Messenger	1	
Labels	1 –	
Repair men	5	
Wax Masters	1	
Overseer Solutions	1	
Master Repairer	1	82
Testers	3	
Control Room	4	
Mould inspectors } treatment }	9	
Despatcher	1	
		18

Stripping Time cycle

40 per hour - Lug & back cleaner
takes mould from rack cleans &
returns to rack ready for Lathe
operator 90 seconds

Lathe Oper takes 15 moulds from
his rack outside to his own rack
average for 1 mould 6 seconds

Lathe Opr takes mould from his
35 per rack places in Lathe, beads &
Hour returns to rack 105 sec

Man taking off backs of beaded
mould to his bench gauges &
35 per numbers mould, takes off
Hour back bead ready for stripper
105 sec

Stripper strips mould finds
Correct bath ticket & places it
40 with Mould, places mould
Hour in carrying box, Makes
out receipt - 90 sec

Commander

~~Fred Ott - Extra charge
of sand for McMullan Electro
Cleaner -~~

~~Moore - When will new
Jaws in Beading Lathe be ready
want to try new Rubber
backing -~~

~~Get the cycle time from
Fred Ott for Varnishing
with Reg Rubber dope
Must Varnish 400 daily
see if 1 machine will
do it if not must make
another -~~

~~Hurry up Double Co $KHSO_4$
Still bath -~~

Doughtery. tests for
Stearic + also Palmitic
Saponification Value Etc
+ tests generally for wax

Get man experiment on palmitate
Alumina with Stearic Etc
to get an improved way

~~Go up Clancy room with~~
~~Buchanan + Lay out~~
~~place for inspection dept~~
~~Wolf + Operation, + repair~~
~~wkg Moulds -~~

~~See where Goll Hangs out~~
~~+ what is done about~~
~~reaming Machine~~
~~also after gets Constable~~
~~reply get Galls Criticism~~

~~See if Benny Cant put~~
~~another man on putting~~
~~Coils in if we have~~
~~them -~~

See Clancy if we cant
find room for 2 more sets polishing
machines

~~Moore, how he is going~~
~~to arrange his built in~~
~~Soldering Machine +~~
~~Where it is to be put~~

~~Tell Dougherty that~~
~~there is 6 idle lead~~
~~lined Evap pans larger~~
~~than he has that he can~~
~~have + possibly can~~
~~find lead pipe for them~~

~~Dougherty - if he uses~~
~~acid salts in Wood~~
~~press without he~~
~~washes out with water~~
~~+ keeps full water acid~~
~~Concentrates by Evap~~
~~+ Eat up Cloths +~~
~~Wood - also he can~~
~~use filter Cloths over~~
~~+ over as we are now~~
~~doing -~~

~~Get up report of number~~
~~Moulds removed each~~
~~day as worn out or taken off~~
~~for other reasons —~~
~~Examine if actually worn~~

~~plan to show number~~
~~records printed from~~
~~each Mould —~~

~~Big faced Clocks~~
~~for both rooms —~~

~~Wagner why keep~~
~~bag on Cylinder.~~

~~Condition Moulds Room~~
~~& arrange only for~~
~~Masters, two Tables &~~
~~in fine Condition —~~

~~Find a place for grafting~~
~~Masters, Very high up —~~
~~Top of 2ft — shelf — Lower~~
~~or on top~~

~~Try Rosin soap in Blanks~~
~~& put thin Vacuum deposit~~
~~Enough for few blanks~~

~~Get Kasakove to show me the~~
~~Ni clippings he~~
~~spoke about.~~

~~For fastening working Moulds~~
~~on face plate —~~
~~Try Dextrin with water &~~
~~glycerine — ditto water~~
~~& NaOH, ditto Rosin~~
~~soap with & without~~
~~glycerine — Shellac in~~
~~NaOH. — when get ok~~
~~test if attacks Copper~~
~~at 350 etc~~

Medcraft has in file book
list of work for phono works
given me Sept 14/20 by
Simpson our old chief Draftsman

Formula for sticking
protective paper on
moulds

90 grms Dextrin
6 " Caustic Soda
100 cc water
dissolve Na in hot
water add & stirr
Dextrin 20 grms at
time till all in
let stay on hot
plate 3/4 hour
its thin & works
OK with brush
sticks tight enough in
20 minutes

to Equal the Beeswax
Rosin stuff for sticking
moulds on face plate
must stand 30 lbs per
inch of surface twist
& test showed didnt
break them 72° Fahr

Make up say 1/2 gal
if OK in morning -

Also make 3 grms NaOH,
100 cc Water 100 grms
Dextrin, also 9 NaOH.
& same water ditto 12
g NaOH to find the
Range - filter it
to get Lumps out, & find
best temp for brushing it
on -

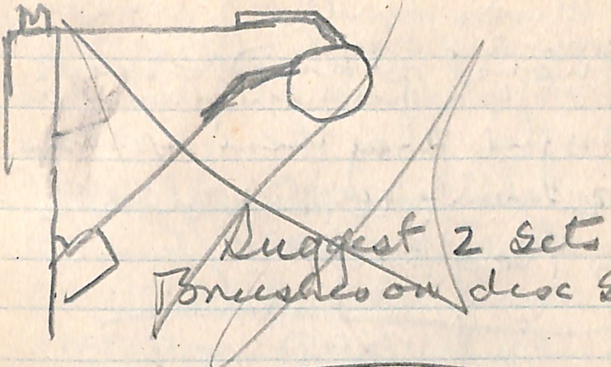
For fastening on try stuff Molasses
in fact [illegible] candy & then heat -
also paper soaked soap & then heat
Try Casein Alkaline -

Phenol rosin + alkali,
see if Reg Beeswax + Rosin we
use now dont come off with
5% alkali hot water.
Acetone + Rosin }
~~Asphalt + Rosin~~ } wash in alkali
Carbolic + Rosin
glycerin + " Expent.

Soft Piano -
Livitsky - best,

Look up Conductivity
of Bronze

Think 3 grms NaOH - 150 Dextrin
+ 150 cc or more of water
Cooked 1 hour best
The 6 NaOH works ok
~~Or 1st formula on [illegible]~~
~~[illegible]~~ Must make further
Experiments -



Suggest 2 sets
Brushes on disc Elim

See Buchanan about
designing a Booth layout

Selma Kurz is coming
over in Feby
Josef Schwartz
Baritone also -
Russian Jew also

Have man hunt all drums
steel bbls Carboys -
Nat's state Etc Have him
find out how many per a month
is made of each kind of scrap also

also Value as scrap
is cost guaranteeing

~~Get music for the 3 tunes~~
~~Benoist played & Wave~~
~~Benzler play them — also~~
~~Wedding Winds Waltz -~~
~~for Reg Sup~~

~~Listen to Hayes Trials~~

~~See Fred Ott rubbers discs~~
~~with Gilsonite in~~

~~Fred Ott, also try 10 &~~
~~20% Rosin in Rubber~~
~~& Coat discs -~~

~~Get formula of flake~~
~~Co dissolving from~~
~~S Bat & Eat of Clancy~~
~~Copper stick to mould~~
~~label - use a putty dam~~
~~try key~~

~~Moore = How near are you~~
~~with the New Lathe holder.~~

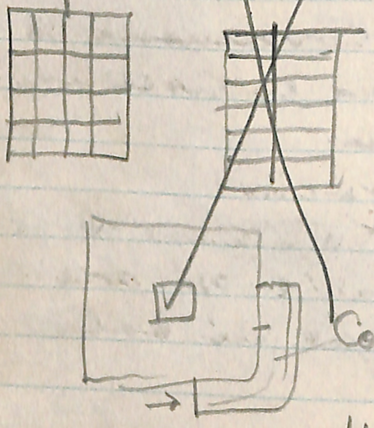
~~Order 3 ampmeters~~
~~Round Reading to 25~~
~~or 30 amp 1 for each~~
~~room - go over to~~
~~Westons personally fix~~
~~holder~~
~~Arrange pilot Baths~~

~~Arrange A a night~~
~~Night Supt read amp &~~
~~Volts all Bldgs & keep~~
~~OK (pilot baths) & record~~ & Repairs
~~Rasacove does whole~~
~~bath readings days~~

~~Make 2 more long plate~~
~~Grafite Electro Cleaners~~
~~so one shift does~~
~~all -~~

~~Mac to start & dup the Copper Master Expmts with Nickel Moulds & see if they dont do better in stripping —~~

~~Have Neil & Caldwell try booths — Also Expmt on making noise near booth window closed open at top. & also a window~~



Use Electric Light have it put in anyway
How about steam heat —

~~See if Benny fixing studio partition —~~

~~Detler use 25% more NH_4SO_3 than the Double Salt,~~

~~I think Anderson days & Vinson nights could attend to men putting in, only be 2 shifts~~

Print on Condensite the 2 Kathleens to ascertain loudness,

Moore Archer

~~See if Ramseys Discs in Cleans & 8/4 are set central in bath Baths —~~

Possibly reason 17 stuck
to label dont wash out
glycerine well enough
on females at label
Warn them —

~~Moore what you going to~~
~~do about getting the~~
~~old type of center Chrome steel~~
~~Center piece screw in moulds~~
~~Goll changed plates~~

~~When get new box for~~
~~carrying find how many~~
~~we will need + see lowest~~
~~price can make put in~~
~~store room + use as old~~
~~boxes wear out.~~

~~Ditler Try $CuSO_4$ +~~
~~Sulfate Mg — Na K Li~~
~~Zn Borax + alkaline salts~~

Sept 22 Hayes get
"You will love me when I'm Old"
+ Dreaming of Home + Mother"

~~Ditler about stripping~~
~~Silver + nickel lites Alcohol~~

~~Try Viscose to stick~~
~~paper on~~

~~Try following sulphate~~
~~Copper solutions —~~
~~Conc $CuSO_4$. 25% KCl — NaCl~~
~~Acetate Na ditto K.~~
~~Citrate K — Na, $MgSO_4$~~
~~K_2SO_4 Na_2SO_4. $ZnSO_4$~~
~~NH_4SO_4 Sulphite —~~
~~Cupric Ammonium Chloride~~
~~Very sol —~~
~~Bromate + Bromide Copper Very Sol~~

$CuCl_2$ 2aq V sol

Lactate Copper 16 pts Cold
Salicylate " V sol
Sulphate Sol 31 cold 203 hot
in Sulfate Copper Acetate Mg
" Bromide Mg
' $MgCl_2$ 167 cold
' $MgSO_4$ 77 "
' K acetate 188 "
' K. Borax V sol
' K Sulfate 8. Cold
' K Sulfate 2aq. 100 cold
' K Tartrate 133 "
' Na Acetate 26 "
' Lactate Na V sol
Na Sulfate 44 Cold

Try Sulfate Cu alone
Acetate "
Chloride "
Bromide "
Chlorate "
Citrate "
~~Tartrate~~ Lactate "

Silver bath
Fluoride Silver 182 in Cold
fluosilicate Silver V sol.

Copper Continued
~~Double Chlorides~~
~~Cyanide Copper + K do "~~
~~Double Salt,~~

~~See if can Coat over finely divided grafite by Ag + formaldehyde + still keep it fine - & If Can dry + use Warner try a little~~

~~Go down + see Bates Machine Made see if anything Can be made Electrically~~

~~Or Silver.~~

~~Hits Quick method~~
~~Grafite, Cover Copper + get .010~~
~~thick 25 @ 30 amp rate, cold solution~~
~~Strip, back up, asphalt that~~
~~dont shrink or plaster paris~~
~~= perhaps rosined with Carbon~~
~~oil on back, or fusible metal~~
~~Etc 8/4 Ni at 12 amp~~
~~for 6 hours, strip + back~~
~~up same way. Then 8/4~~
~~Ni 12 amp 6 hours +~~
~~back up 30 hours at~~
~~30 to 35 amp - possible~~
~~115° Fahr + faster rotation~~
~~Turn + print, use 6~~
~~Masters 3 times. 18 Females~~
~~3 or More Wkg Moulds~~
~~from each 55 + print~~
~~1000 from each -~~
~~Big surface anodes~~
~~Conc sols~~
~~Expmt on Asphalt Ele~~
~~backing + high amperage~~

~~See if we have a testing~~
~~Machine Constables room~~
~~test punched straps -~~

~~Find out where & how they~~
~~pack Ediphones for~~
~~Stevens - + arrange to~~
~~Change A,~~

~~Go down S Lake look at~~
~~own Chem Wks + J V M +~~
~~McChesney - + wax Dept to get~~
~~sample Rood wax -~~

Look a strip anneal furnace
at 2 Battery.

~~Open book battery tube tests~~
~~also temperature tests,~~
~~also tests Archer once made~~
~~for number of Dump - Iron tests~~

~~Work out system of book~~
~~for the sheets 9 receive daily~~

Daily report sheet on Microscopic inspection Masters of wax ok & no signs of attack.

~~Moment Palmitate Aluminum Comes, get Reg formula & Substitute Palmitate Al for Equivalent Aluminum Metal & lessen the stearic to that Extent & try in $CuSO_4$ Sol & quality get some our best wax to compare~~

~~Try dis in hot H_2SO_4 the strippings & see best way to dissolve so can ship to J.V.M,~~

~~Follow up Rawlins find out longest run of any Moulds now on~~

~~See Tabulation of tests of the 4 records with the proletariat —~~

~~Get the test records after Woolf got them & start Caldwell & Neil on them – regular [illegible] only test 1/2 at 1st &~~

~~Get some discard blanks discarded for various things & also Varnished blanks & see if can be repaired~~

~~See if space left for Mould number can be maintained afterwards~~

Grant to follow up trucks
Everywhere & note the men
& lose time, too many men
understanding — Co-operation
between Cos after drum painting

Enter in #4 book that
When we started
Removing solution
for purification
our troubles from
burning & brittle
discs started its
wrong system of
putting in water
& CuSO4 Cryst —

~~Just made 100 cc Alcohol~~
~~100 grm Rosin~~
~~10 cc Cotton seed oil~~
~~for sticking on paper to~~
~~matrix pretty good but not~~
~~sticky enough 15 cc oil Better~~

~~Booths~~
~~2 Bat across at have a~~
~~blower 54" high — 350 Rev M~~
~~3500 Cubic ft min at that~~
~~speed — fan wheel 33"~~
~~Dia OK~~

Get Track of ~~Eng Brooks~~

~~Get some Nu faced female~~
~~& use light Reproducer~~
~~& see 100 times if any~~
~~signs wear so we can~~
~~run over our females for~~
~~Repairing —~~
~~perhaps can use glycerine on it~~
~~& big Repdcer~~

Keep up Expts on cleaning
Wkg Moulds Chemically
to get rid of polishing Machine
- See List in pocket.

See if chloride of silver can
be got into an impalpable
powder if so can coat wax
Master & it will reduce to
plate simultaneously

~~Write Benoist that I rejected~~
~~the 2 Records ask if he would~~
~~Come to Orange & play~~
~~them again~~

~~Make butter dish samples~~
~~of Wax, get reg formula~~
~~& leave out Al. equivalent~~
~~stearic & make various~~
~~amounts Palmitate Alum~~
~~+ Try some Palmitate~~
~~Al alone~~

~~Pick Out doz new fine~~
~~Records & fine surface~~
~~for Maxwell to hear~~

~~Go thru McChesney's plant~~
~~& note bye products~~
~~Also my plant, note any~~
~~Cracks in salvage or Lead~~
~~lined tanks~~

~~In Exptg to dissolve off~~
~~Condensite Try Blanks~~
~~to get action on a spot.~~

~~Try Oleum, hot ZnCl. acids,~~
~~Na Amalgam — Oxalic,~~
~~fused NaOH, KOH, KCy.~~
~~Metallic Sodium, Hypochlorite~~
~~first then NaOH Conc Hot.~~
~~Nitrate Hg — Nitrate Ag Boiling~~
~~Linseed or Castor oil followed by KOH or NaOH~~
~~Hot Conc 66° Sulphuric, Molten~~
~~Metaphosphoric.~~

Try Neco Ni Moulds flash
with Copper & paint see if Condensite
stix to it,

Try Rouge on a Nickel

~~Find out why Daily's Varnished~~
~~blanks is so even far superior to~~
~~our reg blank~~

~~Find out why they don't fix~~
~~Varnished record racks so they~~
~~don't pull off at supports.~~

~~Each day record Mould~~
~~Numbers having series~~
~~dents found in press room~~
~~then in a week we can~~
~~Compare & find if in~~
~~Wkg females -~~

~~Carpet & fix up booths in~~
~~style place for clothes & key~~
~~for girl in office -~~

~~For sticking on face plate~~
~~use Rosin & Oleic acid~~
~~then Come off OK with Soda~~
~~& probably just as good~~

~~Fit a cell with Rubber Cork~~
~~& also find out Costs~~
~~also device if pressure~~
~~accumulates it will relieve~~
~~itself - perhaps tie rubber~~
~~over filler hole with pinhole~~
~~Peachy process -~~

~~Try Experiment dip in peachy~~
~~process rubber -~~

~~ditto Crates,~~

~~See if pulling process will~~
~~save steel ribbon by removing~~
~~buckles~~

~~Put thru a new Fox trot~~
~~Etc on A process -~~
~~Master, females & Wkg M.~~

Sept 25/20

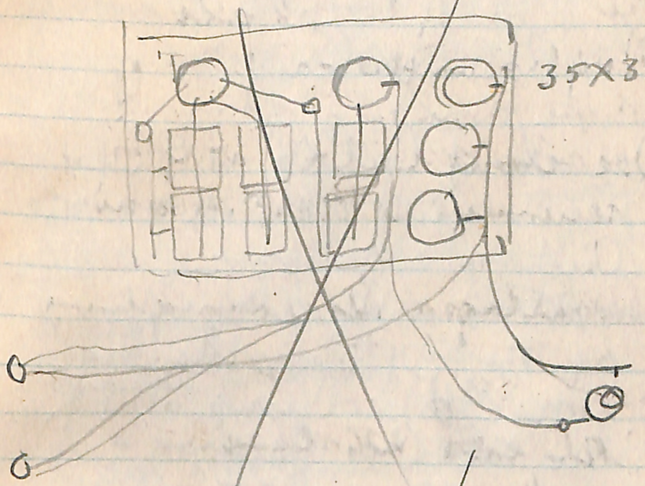
100 cc Alcohol
100 grms Rosin
20 cc Cotton seed oil →
15 Hours OK sticky
+ Satisfactory →

Paraldehyde works
OK on hot plate
Reflex tube 1 Very
Red didnt time it
probably 24 hours
guessed at proportions

Phillips study singer
& fit tune to singer
Collect Scales +
pick songs for best
part of Scales —

Load up neutral bath
with Dunnedin Dope &
Have McM get another
desc ready

For sticking on try
Rosin + Stearic acid —
ditto palmitate Alumina



Or 2 1000 gal Tanks
with wood stirrer to dissolve
Crystals brot from SL 1 always ready
Should be laid out for Whale +
only put in 2 Tanks

~~Tell Kascove to use only 1/4~~
~~Ni discs - pure Copper until we~~
~~get arrangement fixed up~~

~~Try dissolving discs + see~~
~~rate + what goes in solution~~

~~Try Rosin + Oleaic,~~

~~See about $CuCO_3$ at S L for~~
~~neutralizing acid in our~~
~~$CuSO_4$ solution -~~
~~also strengthening~~
~~or $NiSO_4$ from the big~~
~~$Ni(OH)_2$ dump at S L~~
~~in Mother Liquor -~~

~~Jerry for continuous reduction~~
~~Iron + Leaching Li from~~
~~Spodumene -~~

~~Try the Beeswax + Rosin in~~
~~the Soda see if comes~~
~~off clean,~~

~~Small plant Expmt~~
~~Crystalize our Salts at~~
~~24 F~~

~~Go down + paint Cover~~
~~of pots with Silicate Soda~~
~~ditto asbestos in Lime~~
~~Steam slaked,~~

Can air going to oil
be cooled from pot heat

~~How about Powdered Coal~~
~~instead Oil -~~

O'Dair -

~~Get Regeneration pot ready for big - see Year about process & things wanted~~

~~Arrange with Charles I take over all Expenses,~~

~~Get steel, Cast iron etc Hart paint, water glass & many other things bring up 1400,~~

~~In any Event put the water in in new Sol of $CuSO_4$~~

~~Get the Radio cell from Japan to fix Get G cells & fix with wider jar to all bigger pen insulator~~

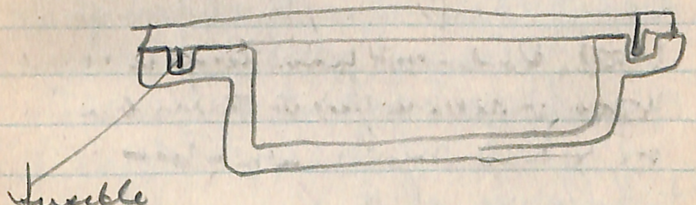
~~Edgerton make an Exprmtl Contact How about brushes~~

~~Take up with Fuller Eng Scheffler about substituting powdered Coal in furnace for oil - Meadowcroft write Scheffler~~

~~Go down see our plant Silver Lake Take Dougherty & sample pile of Nickel,~~

Dougherty try dissolving Regenerated dry black stuff

~~Ask Yez what more does he want to start the 30 lb daily plant,~~



Wash to prevent sticking to ring

The ~~Supt~~ Park - to Collect all scrap metal
around McChesney + JVM place

Charles - What he's going
to do about Salvage
Dept,

Tell Hart. Enamel
Lead glass Lot, Extra Litharge
+ some NaOH, fuse + grind
up paint using little Silicate
Soda to paint with if cracks
use china clay or Ox Mag
fluxes Fluor Spar, Borax Litharge

Rush plans for booths

See if they are holding
that blower at SB at for
me if so have it delivered
in yard near 24 bldg
to be sure of it -

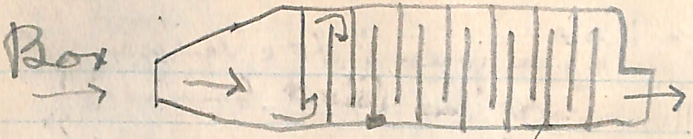
In New tables see that steel
pins are put in idlers - see
More about this -

See Stevens about the foreign
pkg - get history of troubles,
+ go ahead.

Benny - Next move is to
hurry up the new tables
for Master plating + fixing
up conditions + filler for
Master baths, Cooling +
bag filter, 54 3" bags -
+ Clean whole place up

Benny - A new conditioner
is to be put in old Celluloid
+ whole place put in
Condition for grafiling
Design Conditions -

Ask Meadowcraft if he
wrote Bureau of Engraving
also
over



~~Cloths dipped in glycerine or soaked Castor Oil & glycerine - This on the principle of the Nose Can make these in frames & set in box & squeeze up by Screw - Can take out & Examine & it wont give any fibre.~~

~~Smith try Silicate KOH in small cell - give 65 amp hours place 45 when proportions are right - see if can make double Cell in One -~~

~~Get blue print for drawing of Tower in Boat building also find how many roughing Machines OK & how many in progress.~~

~~Edgerton Sulphur wont work well on Ni~~

~~Doughlerry on Lithia -~~

~~Keep up Expmts cleaning Ni Moulds of Condensite. also of better Varnish blanks~~

~~Ask Dalley if he continue using Cast iron top plate in making blanks if not to mark it & will have it put in use in reg plant~~

~~Where are the 2 tracked blanks Miller Made on new wax MacM to find & put them~~

~~Draw out new drives to~~
~~Scale as table is now~~
~~+ Select 3 or 4 to put up~~
~~for actual test -~~

~~Speak to Moore about~~
~~a 5 phono polishing~~
~~table makers -~~
~~Slogan help to keep~~
~~up wages -~~

~~Mac to have proper~~
~~party keep tabs on~~
~~Model numbers for~~
~~a week for series of dent~~
~~discards Think some~~
~~may be in Working~~
~~females - as repairers~~
~~can hear them -~~

~~Moore fix up a phono~~
~~with light weight Speaker~~
~~for working females to~~
~~test - Run over 100 times~~
~~on discard~~

Go over SB re annual
strip furnaces -

~~Follow Dyer up on~~
~~the Neutral Solution -~~

~~Ask Moore if he made~~
~~the little testing Machine~~
~~to stick on moulds -~~

~~At Orange JVM says short~~
~~tube test machine bad +~~
~~been month fixing it up -~~
~~say fixing fast as they can~~

~~O'Dair Weigh some~~
~~Excelsior pads dif~~
~~shapes -~~

Meadowcroft about booking the Motors, Spares ~~out~~ in one place — & then each concern keep up reports to Central Ofs —

Sept 27 206 rotation (new) in
28th 233 " "
Oct 11th 473 " "

Latest results satisfactory after 36 hours

100 cc Alcohol
100 grms Rosin
25 cc Sesame or Castor oil
30 would make it stickier
It comes all off in Caustic Soda hot in 30 min probably less —

See Hauck — arrange direct system also get copy of scheme & go to Maxwell & arrange trial —

Arrange cut door thru from old to new treatment

Fred Ott fix Varnishing Mac in new treat room —

Arrange polishing Machine in new treatment — Abandon Emery & use Rouge — only to be used for treatment work — Abandon soak in running water — when arranged go on 1 shift.

When go on 1 shift go on 2 shifts putting in

Buchanan better make Dorothy separate & removably connected then ~~she~~ can change. See if can go in Elevator.

~~Arrange test for mould injury~~
~~of moulds in press~~

~~See Hayes about future Supplements~~
~~of these times, & put Phillips on~~
~~to study them –~~

~~Coyle, central Inspection~~
~~Blue Cumberal, Moore~~
~~says good man, Wolf's plan~~

~~7 to 3 shift Solution~~
~~Bad, Records stuck~~
~~to moulds pull outs~~
~~I couldnt do any~~
~~with it all over~~
~~on mould, Changed~~
~~Solution then OK~~

~~Went to 51 61 etc~~
~~new of 93 97~~
~~98 –~~

~~Tell Clancy that I instructed~~
~~Control room inspectors to~~
~~watch & note on Card series~~
~~of Dents & that his inspectors~~
~~should look for them & if found~~
~~hold up~~

~~See Wolf & Paullin about~~
~~The daily report of Discards~~
~~& Have Altinger Open~~
~~book & Preserve all Cards~~
~~until entered on daily report,~~

~~Speak to Paullin about Lack~~
~~of Organization & taking so many~~
~~men on 2 tables too much~~
~~now & schedules rotten~~
Taking on too many men

~~Foreman to mark all~~
~~mechanical injuries +~~
~~Make Reg report, cause~~

~~Speak Paullin about~~
~~Training table~~

~~Moore get something to guard~~
~~springs or something better~~
~~Stem holders –~~

~~Paullin Buchanan Nicolai~~
~~must fix the Sewer at once~~

~~See Ramsey + Jacobus +~~
~~have all females marked~~
~~where the dots occur +~~
~~repolished see Day inspection~~
~~of Wkg Females + Jakobus~~
~~have chg of it to run it~~
~~down + figured Cause~~
~~ascertained~~

See Mac + Wetter about
doping the last cell
for wax – if dope in try
more + another wax
Master –

~~See if Mac has got any~~
~~of the backed up new~~
~~scheme wkg Moulds~~
~~or backed blank~~

~~About Dempsey fixing~~
~~up Multiple jets.~~

~~L Ott about going ahead~~
~~with glass expts~~

~~Turn Hart over to~~
~~McChesney~~

~~Look at G cells + study~~
~~best way out –~~

~~Painting Steel + Cast Iron~~
~~Stop Oxidation~~
~~Asbestos + Silicate Soda NG~~

~~Litharge + Silicate soda good~~

~~Sodium Silicate fair~~

~~B~~ ~~Leadglass Litharge, NaOH.~~
~~+ Sodium Silicate~~
~~The glass PbO + NaOH mixed + fused Repowdered + mixed with Waterglass -~~
~~If fusing point could be lowered it would be good - forming an Enamel,~~

~~get Model new~~
~~Carrying box~~

~~Attend to Tin Sol for~~
~~Hoffm. fix d ance for ch.~~

Cost per separators per 1000

Labor 36 Cents

Material $3.13 G 757

G 1457 -

Labor 53 cents.

$5.61.

For the size Cell. Jaquan sent me 24 extra separators necessary

Cost 9 cents to make Cell OK - + ultimately get ~~these back~~ on returning

31 Cents for A 8 - scant

See Combination Rubber Co man
see if he can make hard Rubber
tubing 1/32 thick, we can
Coat with Condensite Varnish
+ paint, it will contract
much but contraction controlled
by fillers —

Also hot glue painted on Mandrels
greased. Makes tubes +
paint right on ~~Cellul~~ glue
with + without formaldehyde
possibly inside of mandrel —

Try Glue + film Celluloid +
paint,

New Rubber process filled chalk
+ fibre, or no fibre + full gilsonite
of soft Rubber + make tubes —
Peachy process.

Pack + peroxide Circulation
50 discard Ni faced records in
box Crockery ware, or wood
~~water~~ + set in warm place

Wood

fill with acid + Conc $CuSO_4$
+ put date on   Try Wood
Pail or tub surround with lead
pipe + Lag it + pass heater steam
through 175 deg Fahr + note
time + keep supplied $CuSO_4$
Keep Cover on — possibly
(probably have 6 and them —

Get a man for Expmtg on
Amberols + this —

Get from Fagan 3 returned
for repair, worst G Cells

Find a device to hold 3/16 tubes
in position for pressing —

Experiment on precipitating
$Cu(OH)_2$ containing 25%
of other things so we have
75 $Cu(OH)_2$ + 25 $X(OH)_2$ or
other thing to see if get
Catalytic effect to prevent
dehydration of $Cu(OH)_2$
Edison try it —

~~Mac - get 4 Sound Records put in our Ni baths at 10 amp & go for 10 hours or more to make 100 amp hours, & back up with Copper reg way for working Mould, then arrange these 4 run on press & watched & every 100th print preserved if they go bad keep right on until I say stop~~

~~I believe worn flat is due to thin nickel, the Copper flowing & giving flats. These records being Current stuff can go to stock not costing us anything.~~

~~Should time be too long for removing Ni from Discs Can run them on a disc with Edge wheel or spinning tool & cut them giving access to Ni & more local action~~

~~Find out if Dubs Can punch anything from Disco -~~

~~O'Dair Neil 2 pieces nearly to head & test drawing power & corresp. breaking of wire & strap~~

~~Of 168 Records test prints given by Wolf dept to Neil & 145 to Caldwells after discards removed by Wolf The room of C. Neil quiet padded booth - 313 face 38 Bad 87 fair 170 fair to good & good - 16 very good 90% passable - 60% good~~

~~For Drying boxes of rubber back discs 8 boxes in Dryer at once — 12 boxes altogether needed — 6 in a box with Buttons on, or 18 with 4 button disc — 1 box in 2 shifts 3 coats does 54 discs — 400 disc to be done in 2 shifts All based on revarnishing Each time As it will probably be unnecessary to varnish Each time think Every 4th time it will probably only need 3 or 4 boxes + possibly 1 shift —~~

New Mould Dept 1 girl allowed 8 min to go over record 480 minutes Capacity 60 per girl, 300 test records Requires 5 girls, 1 girl with 5t machines to make the once run over will do 350 —

If 50% is doubtful. then 50% will go to Caldwell + Neil to cut. 175 or 87 Each. as this is more than they can do It will require another man, or 58 to a man now + as we improve this Extra man can be removed —

With Operating Moulds on press. 92 presses. every 120th mould tested

2208 Moulds Operatin

Will require 1100 Records
to be tested every day
This at 60 per girl is
19 girls +
This with 8 persons for
new Moulds requires 27
Booths,

~~See How Buchanan get on~~
~~with Model booth -~~
~~+ did he get Drawer,~~

~~Change filter on 8/4 to~~
~~Maple and 2" bags.~~
~~ditto if possible on NaSO4~~
~~find out from Ramsey~~
~~amount of NaOH he uses~~
~~tell Archer test alkalinity~~
~~of the solution - first~~
~~test if filter bags will~~
~~work in Lab before using~~

~~See if Extra 2 cleaners~~
~~Fred Ott says we ordered~~
~~are finished~~

~~See Mudd about bid~~
~~on Carrying boxes +~~
~~see Commander how~~
~~many we want,~~

~~Ask Benny why he~~
~~cleaned top copper~~
~~bath when we are to~~
~~remove them -~~

~~Note date 2nd Oct~~
~~we polished wkg females~~
~~showing minute dots~~
~~or spots to stop dents~~

~~See Mc puts in new~~
~~wax in Still bath Excess~~
~~dope in~~

~~Listen to Losey's samples~~

~~Go up see Sanborn to Cut Costs.~~

~~Eye inspection of records 600 records daily per girl - 480 minutes - principally bad blanks pull out Cracks etc - 15 girls 90000 Records~~

~~3rd 1st final Umpires 1st & final -~~

~~Clancy - 350 Moulds Control inspectors moved up there Eye & Micro before turning. & passed for turning - 5 men - less when improved~~
~~6 Repair~~

~~.Press active mould repairers One shift days substitute other moulds -~~
~~Try 8 repairers at first~~

~~Total~~

~~Males & Females~~	~~6~~
~~Inspect " "~~	~~3~~
~~Clancy~~	~~12~~
~~Operating Mould~~	~~19~~
~~" Repair~~	~~8~~
~~Record Eye & Umpire~~	~~18~~
~~Test prints~~	~~9~~
	~~75~~

~~L Ott solder keep Tin & Bi constant & vary the lead test see if homogeneous~~

~~Collect 12 double moulds no springs & 12 with springs run a test.~~

~~Make for 1.10 V Lalande~~
~~½ doz test precipitation~~
~~normal temp at Equal~~
~~quantities other Sol~~
~~Sulphates & see if blacken~~

~~Arrange with Paullin~~
~~Control Hauck being~~
~~Chief –~~

~~Look at trucks if adapted~~
~~to new automatic also~~
~~number of trux on hand~~

~~Give Dolly the new~~
~~OK tracked blank~~
~~to Operators with &~~
~~Liston~~

~~See Simpson if his men~~
~~will undertake auto~~
~~matic Loading job~~

~~Told McMullen put~~
~~them band same time~~
~~50 amp h Ni & 100 amp~~
~~h Ni & put on press~~
~~get every 100th print~~
~~to note flats & quality~~

~~Kassoway – dont run~~
~~NiCu anodes down so~~
~~far want to get them~~
~~out of system –~~

~~Since Archer left, tubes~~
~~bad, Who took his place~~
~~please send copy ours his~~
~~daily tests on Split tubes~~

~~Moore Cotton Cord~~
~~for cell –~~
~~Dont forget the light~~
~~Wt reproducer Haynes~~
~~has one to loan~~

~~See Hanck put more presses on~~
~~& no more people arrange~~
~~with Haffman, Paullin~~
~~Keep putting on presses & arrange~~
~~Schedule until all men are~~
~~busy — 62 presses should give~~
~~52000 with force I saw on 2nd floor~~

~~Have Blanc note Loafing~~
~~at Power house construction~~
~~find out kind of Contract.~~

~~Finish up the Celluloid~~
~~Mission aft noon~~
~~so able to [illegible]~~
~~discussions Constable~~

~~Precipitation of $CuSO_4$ in~~
~~presence K_2SO_4 turns black~~
~~on asbestos wire mesh or~~
~~hot plate in 10 minutes~~
~~dark blue to start with~~
~~$ZnSO_4$ & $MgSO_4$ still~~
~~bright blue at same~~
~~time~~
~~10 min $CuSO_4$ + NaOH.~~
~~Black —~~
~~$ZnSO_4$ 20 min —~~
~~tendency to darken~~
~~$MgSO_4$ OK~~

~~Tried K_2SO_4 $ZnSO_4$ $MgSO_4$~~
~~$MnSO_4$ Ferrous SO_4 —~~
~~$CuSO_4$ alone —~~

~~$ZnSO_4$ stood considerable~~
~~heat before darkening~~
~~But the good one was~~
~~$MgSO_4$ This kept blue~~
~~when very hot & for 1/2~~
~~hour,~~

Try all the other SO_4 salts,

~~Go to studio & listen to Losey's Records~~

~~Pound Moore for Light Reproducer~~

~~Make 5 different proportions of $MgSO_4$ + $CuSO_4$~~
~~Matter 50 cc sat sol + $MgSO_4$ saturated + use different amounts & put on heater~~
~~The One standing highest heat, longest~~
~~Make big batch dry then percolate & make a pocket & test -~~

Also Soak a CuO plate in Mix + then in NaOH,

~~Caldwell-Nell did you get Wolf report -~~

Go silver & see my plant ditto
Gov'm bldgs for storage

All piping + fittings
All extra Motors
All sheet Lead & pipe
All Electrical spare outside Current
All grinding App
All Screening
All Mixing -] Presses
Pulleys - Bearings, shafting
All bolts, Nuts,

Wash & test McChesney's
Bye products

~~Get Loss discards due to low steam & bill them to Steam Dept - Hoffman~~

If we are to polish each
mould in plating -
2 machines of 4 each
will be necessary - each
240 day - 1 shift —
They will be fresh + used
as fast as made -
10 sec cleaner only
+ possibly not at all —

Order the above

~~Select place for Booths~~

~~Why wait so long for
oil furnace,~~

~~Fix up Wolf + Caldwell + Neil
Sheets so can check.~~

~~Hurry the bevel gears
drive for baths~~

~~Get Hoffman Reports in
good shape.
Show loss Blank
Varnish
Print
Washing
+ net to stock room
The total number + also % -
+ Book them -~~

~~Send to Jones for more men
Clerk type, + hire on
questionnaire, for Watcher
+ Inspectors~~

~~Look at Gill's waxer
again -~~

~~Go over with Warner to
Tower. + place orders
for benches when later
designed~~

~~Have Warner design his shafting. + Storage Cracks filters + system~~

~~Fred Ott Drawing for 3 windows 4 in winds + Ventilation + whole system.~~

~~Ask Buchanan if he found another drawer~~

Get Manager for ESB Chemical works SL

~~Speed up to 5 Rev all tables~~

~~Arrange for more Carpenters so our booths + tables go faster.~~

~~Possibly we need big steam drum heavily lagged at 24 to stop the bad variations in pressure~~

~~Get the 2 quarts water for the Chem man for incrustation Experiments~~

~~Weigh a double brush + Double weight so Black record discs Can be polished 1/2 the time once over for New + twice over for black. Moore~~

~~Dry the $Cu OH)_2$ $MgOH_2$ + mix with grafite + put in iron pocket for Voltage test.~~

Terms of Piano [illegible]

Schmidt spends Whole
week Expmtg at cost of
$600. + makes 3 dup
of 1 record inclusive
any further records
from 100 to 200 for each
of them 3 Dup 1 record
Came Monday 11th

~~Get List of 50 tunes~~
~~marked good for Piano~~
~~for Schmidt —~~

~~A Report of 1% of lowest~~
~~cells in each batch~~
~~tested I since got~~
~~was being stopped —~~
~~why —~~

~~Rouge I tested & use~~
~~is 1 XXG from Conduit~~
~~Hanson & Van Winkle —~~

~~test sample again~~
~~Did OK~~
~~Try light Rapids with~~
~~oil on Record — Still~~
~~Challens —~~

~~Polishing Rouge~~
~~Jos A McNulty NY~~
~~Gritty.~~

~~Red Rouge H F Griffith & Co~~
~~No good full hard~~
~~pieces 7/2 0 3~~

~~King & Malcom —~~
~~Kinnear Special Asphalt~~
~~Hard pieces Quartz & Asmalt~~

~~RJ Waddell & Co NY~~
~~No 4 fair - no grit -~~
~~No 18 few pieces Quartz poor~~
~~"R" OK no grit. 46 cents~~
~~M6 - #4 35 cents~~

~~Katzenbach & Bullock Co~~
~~full of grit.~~

~~Condit Hanson & Van Winkle~~
~~We now use~~
~~XXG is OK~~
~~& best of all no grit~~

Regeneration discard Wkg Moulds

1st 24 hour		14 grm $NiSO_4$ lab
		287 $CuSO_4$
2nd 24 "		44 $NiSO_4$
		269 $CuSO_4$
3rd 24	Nearly straight line on curve	93 $NiSO_4$
		239 $CuSO_4$
4 24		141 $NiSO_4$
		203 $CuSO_4$
5 24		184 $NiSO_4$
		163 $CuSO_4$

Write Questionaire for Business Manager

Questionair for Battery Salesman, Do Manager Sales

Questionnaire for Electrical Engr -
ditto for Electrician worker
Wireman -

Foreman of Machineshop
Moore,

General Inspector
Think A1 Tool Maker OK

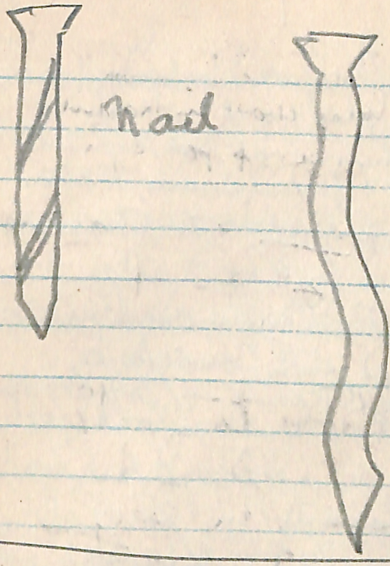
~~Arrange to use our well water instead of City water where OK - Nicolai knows about it - where goes to Sewer~~

Buchanan attending to it

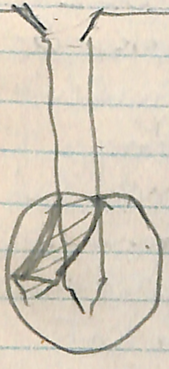
~~Kasacovs – Ni anode straps twisted around so twisted part always out of solution Ask of Eaton + how long last + supply of Nickel –~~

2 Inspectors to go to Silver Lake then to Jamestown Etc then answer a Questions about this – 1 goes to Canada the other here in Records etc then in 3 months change

Perhaps Ca Sulfite + Ca Bi Sulfide Lime worked with Rubber will Heat, or Bi Sulfite Try



After driving bends it straight Big Clench



Try Alcohol + Seasame oil on Moulds see if Blacken in place Chl Tin – Wkg Mlds

Amberola

1

Use Pontinac (box full in galvanizer room roll in sheet also work in Kaolin & put in sheets then wrap pot. cylinder using solvent & press seam warm then print. then Condensite Varnish

2

~~See if Comb & Rub man can make tubes varnished with Condensite, soft kind like Okonite — Try Okonite people.~~

~~Dissolve Gilsonite in Benzol 2 parts, pass HS 1 pt SO2 other part See if it takes S & gets hard if so Varnish with Condensite — Try Hard Mex, Cuba & Trinidad~~

Make cylinders gilsonite loaded & brushed on Mandrils hot using Castor oil or graphite to remove then Varnish Condensite.

Glue (Possibly glycerin) Coated film
celluloid Solvent

Try glue & load Kaolin & put on Mandril hot.

Casein in alkali put on Mandril hot also loaded with Kaolin then Varnish Condensite.

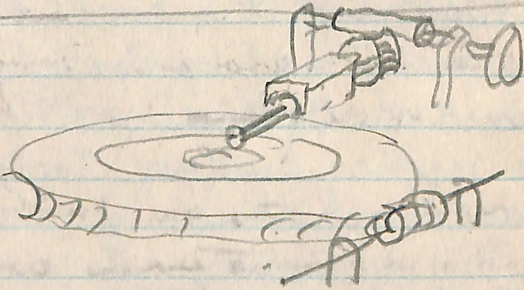
Try Pontinak HS SO2 Benzol loaded Kaolin.

As condensite Varnish requires time to harden & 300° deg it is probable it would not be comml to use it on Cylinders — hence the repdcg surface itself must reproduce.

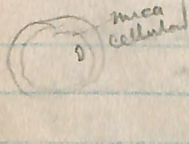
Press Cylindrical tube out of Dallys blank material Varnish it & Condense it fully in a die .005 smaller than Mould record, then put in & press.

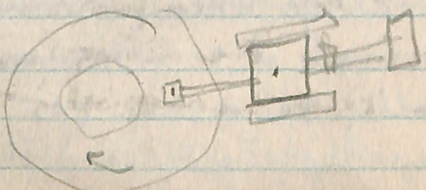
~~For cleaning working mould~~

~~1 = Conc ZnCl.~~
~~2 Conc H_2SO_4~~
~~3 20% NaOH ½ h then CS_2 to form viscose~~
~~4 45% NaOH. hot~~
~~5 = Conc Arsenic acid~~
~~6 Hot alcoholic NaOH. Conc Sol soak~~
~~7 Hot glacial acetic followed by 45% NaOH, acetic takes off lead Res & alcohol. then Water~~
~~Oxalic, nitrate Aq Melted Metaphos acid~~



Repair Machine





~~When OK patent Ford starter bat in England France, Germany, Italy.~~

~~Cheaper Ediphone records~~

~~Matrices Wholly of Ni~~

~~Vocal books 1000 Threads~~

~~Try very thin Ni, some of Hankeys, lay on a discard with blank on & ferment for rapid "Hots" process. Try Copper if Ni fails.~~

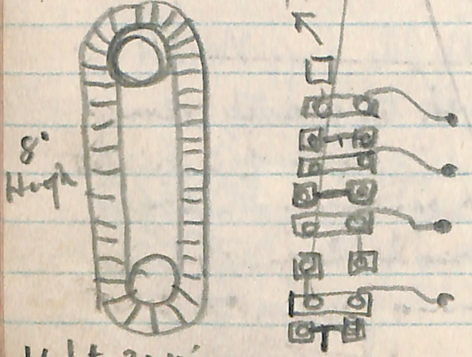
~~Make some $Ni(OH)_2$ by NaOH + $NiSO_4$ in ratio to pdate, dry by hot air in rotating Cylinder in 30 min then percolate for Hanley — try a Reg test tube see MA per gram —~~

Gabrolowitch, is a chamber music pianist. Livitky ditto

~~Try Soak hard Celluloid in Water Containing Acetone see if softens.~~
~~ditto Camphor in Alcohol~~
~~" Amyl acetate.~~

~~New scheme Moored Balloon Helium filled but constructed like wind mill + Connected to a Dynamo using Mooring Cables for Current windless 300 ft or less up. Wind is about goodly constant~~

Varnishing Machine



16 ft 20 min dry

~~When Talmadge comes go around with him personally also write out in detail just What Steam Dept doing + Reports daily needed~~

When LeBlanc is familiar Organize Electrical Dept + Reports + write detail duties-

~~Ask McMullen about the 50 + 100 amp Ni records should have 100th by now-~~

~~6000 lbs of Dross discarded monthly. Two 6000 lbs Lead lined Steam Coil Tanks wanted for Exhausting the Nickel Tank lagged to Conserve heat.~~

Sent discard Ni faced seconds in Crock on hot plate.

Blue Vitrol put in Oct 5
Some H_2SO_4 —

	$CuSO_4 7aq$	287		$NiSO_4 6aq$ 14.60
Oct 6	"	269	Temp	44.80
" 7		238	Crock	93.73
" 8		203	154°	141.28
" 9		163	Fahr	184.28
" 11		126		278.00
" 12		90	water added	241.15

On 12th. $NiSO_4 6aq$ 72.73%

When ready want a full & Complete inventory at each place of Everything spare obsolete & not Current Running stuff —

After Collection 1 man Keeps this up, all orders not for Current supplies 1st sent to this dept who

Marks on order What he has & if Taken takes it off his books ~~O.K.~~ Co: send account of anything abandoned on account of it & where stored —

Binder board — 50 to Cabinet Bogola ng

$154 Ton —

Whipping $152.5 Ton

Find a Customer for old Anodes 8% Ni in —

The old strippings in bags in store house will dissolve with repeat mould

Moors rating Tool Mk
A First class
B not as good as A
C still lower grade
D Machinist only

Gilsonite is acted on by HS + SO_2 reaching which makes it not meltable but softens — Work it up & try other asphalts

~~Reg Rubber dope 1/2 HS 1/2 SO_2 Mixed to a dough & dried makes a substance almost like Celluloid hard Cold & Can bend & soft at 200. Think this will do the business~~

~~Think Sulphur also would work or SCl_2~~

~~Very PROMISING~~

Get real babbit & make 1/2 doz. disc holders abandon wood — put screw on to make Contact. —

Inspector for McChesney's plant,

~~Jocobus Shows new wkg females average 60 repairs each & old M 36~~

~~Speak Maunbert about Bookkeeper for steam Engg Dept & Electrical Dept — separate or Combined & what he will do about it & when —~~

~~Organize Truck Service = Express to S Lake Telefone to call from 1 central point. Lieberman Report~~

~~Lieberman 9m very intelligent~~
~~Comes Thursday = Put him~~
~~on Truck system study &~~
~~Report — also Lang from~~
~~Jones dept 154~~
~~Temperature of Crock with~~
~~Discard: Ni faced~~
~~154° Fahr~~

~~Baling Dept refuses~~
~~paper as its too busy~~
~~We put in bags &~~
~~they take em away but~~
~~I notice burning paper~~
~~in Lab boiler —~~
~~(Lieberman)~~

~~Get a bbl or bag of~~
~~Gilsonite 200 @ 300~~
~~lbs —~~

~~Fire chief to tell me best~~
~~device fire protection~~
~~plating plant no~~
~~Depends to heat bath~~

~~Trux in Yard 3" wheel~~
~~with tin funnel at stores~~
~~room end of long bldg~~
~~next affair —~~

~~Lab sells paper outside~~
~~Baling — Dept can handle~~
~~been using horse & wagon~~
~~instead of push Cart.~~

~~2 & sometimes 3~~
~~men on a small~~
~~truck 5" wheel~~
~~Trux should be 36" wheels~~

Bradshaw - passed
Questionnaire OK -
will pay 40 no more

Lang with Jones 40 passed
will pay no more.

Speed man in Hubbard's
Recording lighting
See about it -

Follow up Cunningham
on lowering temperature
of annealing -

Have Smith of SBCo
who ordered Pyrometer
answer questionnaire

Try dip dark refaced blank in
CuSO4 alone, then with acid
warm - try various times
then wipe - if that don't do, try flake
Copper sol -

Take black reject put in CuSO4
slightly acid until coated copper
then clean & print -

Try plating Ni over black reject.

Try black reject [illegible] as
anode & wipe -

Try strip black reject record
thru hydrogen thus carbonizes
Condensate & shrinks it so.
Rubbed off - bring - full red

Run blue flame over surface
burn only instantly & wipe
off - Could rotate & feed
the flame acetylene flame
fine & fed might be better

Use records to try on spots
the different chemicals —
Can see better if attacks
Condensite.

~~Dally brush over Lampblack~~
~~on a blank + print~~
~~ditto China Clay see how~~
~~leaves Matrix~~

~~Put Tin foil on blank + print~~
~~see how takes impression~~

~~Paint over Aluminum powder~~
~~see how it prints + if Conducts~~

Paint with slightest trace
of say Dextrin in with with
the Copper metallic by Zinc
reduction or from baths +
print see if Conducts —

~~Dip black in faced record~~
~~in 8/4 Conc 20 min see~~
~~if can rub off —~~

~~Try for Curiosity treating~~
~~in reg way a very black~~
~~discarded flat by Electrowash~~
~~8/4 + plate Ni 100 amp~~
~~+ strip to examine the~~
~~2 faces under Micro~~
~~see if clean also of~~
~~flats~~

Make Anode in Bichromate
Potash — ditto Nitrate Soda
Chromic Sulphate —

Try Sodium Amalgam —
Oxalate Na —

~~Press in small $2\frac{1}{2}$ inch~~
~~die record surface~~
~~piece of Peachy + China Clay~~
~~see how works —~~

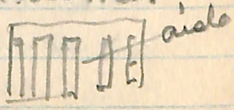
Moment Smith gets Cuprate
Mg dry - grafite it +
make 2 pockets

Rubber backing boxes
6 button dies in box
find if being made -

Fred Ott break in man
new clerk type on flowing
Rubber Machine -
right away

See Coyle inspector (neutral)
in Australia, ~~says~~ Moore
says good man Wolfs
place

Select a space in Storage
Bat for a general store
room for general material
not in routine use
for all Companies -



Find out from Paulus if prints
are filed with all of the 82000
Moulds & sent a note,

When top Copper baths
are removed put solution
in last row of Nickel
baths -

Werner - take over
Miss Ingrund

Go over to Griffith Piano
Co + see about Steinway
take Horn

Try another shaped
horn no flare to
amount to anything -
possibly Stetho ear piece -
to get tone more
natural, do this at once

~~Try plating Zinc from~~
~~$ZnSO_4$ & also from~~
~~NaOH & KOH solutions~~
~~on grafite—~~

Dont give up Cu Cy KCy
Sol,

~~Try Have Hanley make~~
~~very thin Nickel foil &~~
~~try it again on a record~~

ditto Copper

~~Hurry Moore to increase~~
~~stems, & also try~~
~~Babbit bushing instead~~
~~wood & 30 amperes~~
~~no Contact springs—~~

~~Go to Silver Lake & find~~
~~2 6 X 4 or 5 wood tanks~~
~~Lead coil for regenerating~~
~~Reject Disc Matrices—~~
~~with steam close by.~~

~~Instruct Lieberman &~~
~~say will get what data~~
~~he wants tell him another~~
~~man goes on to do same~~
~~thing, find out from~~
~~Jones when Lang can~~
~~take hold—~~
~~Give Lang Copy of memo~~
~~I give Lieberman—~~

~~Find out from Archer~~
~~if man who was in~~
~~garrage Wednesday~~
~~is one of new men &~~
~~what does— Have~~
~~Englishman put with~~
~~archer to learn & do~~

this 3 or 4 days so I
Can put him on nights

~~Find out if Arcker &~~
~~Night inspector are on~~
~~our Lab payroll —~~
~~Its the intention these~~
~~are under Executive~~
~~Com of the E Incorp -~~

~~When Charles returns~~
~~Have him close the~~
~~Salvage, Labor men~~
~~Loafing outrageously~~
~~How many men let off~~
~~on Service Division~~

~~Tell McM only once over~~
~~New Moulds or those clean~~
~~& say they are going twice~~
~~over now -~~

~~Get City water bill McChes &~~
~~GVM & Salvage & E Incorp~~
~~bill -~~

~~Have, Folsom and another~~
~~man being taught as~~
~~Inspector Disc plant, get~~
~~his name~~

~~Allengarten get from~~
~~Andreason, the names~~
~~of all men employed~~
~~& rate for Monday~~
~~next - & Record it in~~
~~book then each week~~
~~Correct the names~~
~~number & rate.~~

~~Use 6 tumblers -~~

~~Use water 1/2 heighth of~~
~~Cylinder Record - Each tumbler~~
~~more & more Acetone -~~

~~See of Camphor Sol in
Glycerine Benzol.
Turpentine~~

~~On 16 Oct Total old
disc bath holders
1108 on hand &
— in baths —~~

~~Ordway is assist Inspectn
to Folsom now 16th Oct~~

Wharton now goes with
Archer in garage to be
taught putting in
disks $30. week 6 day
7 days in proportion

One man fixes the rate
A B C & D Tool mkrs
arrange the rate of pay

~~Investigate inter trucking
in Disc Division & cost
number men, check
& how to improve~~

~~Fix up Disc Max &
Min book —~~

Things have fallen
so — no bonus
hereafter

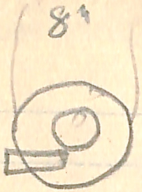
Look at doz new tube plates

Scratch, rejected Records & store in Kasmacor Stock Room or arrange with Clark under Lock & stack to store —

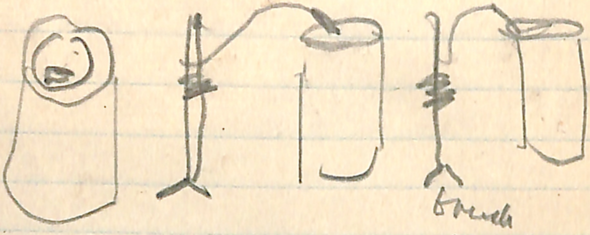
Mr Easter ~~2 new~~ books

A4 cells made up Every Day for split Tube test —

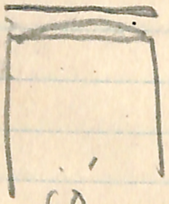
~~Write Hoffman & Patten to pay especial attention to Bradshaw reports on handling Moulds~~



Brush 2" wide



4)3150
787



4)7
1.75

4 in 7.

7)480
70

60
27 4/8

1 mach
2

2 Machines 4 Each 1 shift

$1-

220.000

5 4.14

50

770

4 os 77 15 50 (13

80 55) 75 550

3220

20

450-

7

315-8 32 liters

25 liters Benzol

37) 250 (7

259

7 galls - 8 hours

1 gal hour, to take care of

13 (

750-

57) 9-

1.1111 16) 90 (5

||||| ||||

|||||| ||||||

|||||

||| |.|

||||+

||||

40 @ 44- 54

51- 5

278